

SEQUENCE LISTING

<110> Bodine, Peter V.N.
Billiard, Julia

<120> A Novel Method of Modulating Bone-Related Activity

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<150> US 60/463,364
<151> 2003-04-16

<150> US 60/501,340
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 Page 14

370

375

380

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Lys Met Glu Ile Leu Tyr Ile Leu Val Pro Ser Val Ala Ile Pro Leu
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Gly Glu Val Glu Val Leu Asp Pro Asn Asp Pro Leu Gly Pro Leu Asp
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Gly Gln Asp Gly Pro Ile Pro Thr Leu Lys Gly Tyr Phe Leu Asn Phe
50 55 60

Leu Glu Pro Val Asn Asn Ile Thr Ile Val Gln Gly Gln Thr Ala Ile
65 70 75 80

Leu His Cys Lys Val Ala Gly Asn Pro Pro Pro Asn Val Arg Trp Leu
85 90 95

Lys Asn Asp Ala Pro Val Val Gln Glu Pro Arg Arg Ile Ile Ile Arg
100 105 110

Lys Thr Glu Tyr Gly Ser Arg Leu Arg Ile Gln Asp Leu Asp Thr Thr
115 120 125

Asp Thr Gly Tyr Tyr Gln Cys Val Ala Thr Asn Gly Met Lys Thr Ile
130 135 140

Thr Ala Thr Gly Val Leu Phe Val Arg Leu Gly Pro Thr His Ser Pro
145 150 155 160

Asn His Asn Phe Gln Asp Asp Tyr His Glu Asp Gly Phe Cys Gln Pro
165 170 175

Tyr Arg Gly Ile Ala Cys Ala Arg Phe Ile Gly Asn Arg Thr Ile Tyr
180 185 190

Val Asp Ser Leu Gln Met Gln Gly Glu Ile Glu Asn Arg Ile Thr Ala
195 200 205

Ala Phe Thr Met Ile Gly Thr Ser Thr His Leu Ser Asp Gln Cys Ser
210 215 220

Gln Phe Ala Ile Pro Ser Phe Cys His Phe Val Phe Pro Leu Cys Asp
225 230 235 240

Ala Arg Ser Arg Ala Pro Lys Pro Arg Glu Leu Cys Arg Asp Glu Cys
245 250 255

Glu Val Leu Glu Ser Asp Leu Cys Arg Gln Glu Tyr Thr Ile Ala Arg
260 265 270

Ser Asn Pro Leu Ile Leu Met Arg Leu Gln Leu Pro Lys Cys Glu Ala
 275 285
 Leu Pro Met Pro Glu Ser Pro Asp Ala Ala Asn Cys Met Arg Ile Gly
 290 295 300
 Ile Pro Ala Glu Arg Leu Gly Arg Tyr His Gln Cys Tyr Asn Gly Ser
 305 310 315 320
 Gly Met Asp Tyr Arg Gly Thr Ala Ser Thr Thr Lys Ser Gly His Gln
 325 330 335
 Cys Gln Pro Trp Ala Leu Gln His Pro His Ser His His Leu Ser Ser
 340 345 350
 Thr Asp Phe Pro Glu Leu Gly Gly Gly His Ala Tyr Cys Arg Asn Pro
 355 360 365
 Gly Gly Gln Met Glu Gly Pro Trp Cys Phe Thr Gln Asn Lys Asn Val
 370 375 380
 Arg Met Glu Leu Cys Asp Val Pro Ser Cys Ser Pro Arg Asp Ser Ser
 385 390 395 400
 Lys Met Gly Ile Leu Tyr Ile Leu Val Pro Ser Ile Ala Ile Pro Leu
 405 410 415
 Val Ile Ala Cys Leu Phe Phe Leu Val Cys Met Cys Asp Tyr Lys Asp
 420 425 430
 Asp Asp Asp Lys
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<210> 13
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<220>
 <223> top strand primer used to construct Ror1-flag

<400> 13
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20

<210> 14
 <211> 65
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 <213> Artificial sequence

<220>
 <223> bottom strand primer used to construct Ror1-flag

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agttccccag ccggcggccc cgctt	25
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<211> 37	
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<400> 16	
tacgattcta gatgtcaagc ttccagctgg acttggg	37
<210> 17	
<211> 32	
<212> DNA	
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<400> 17	
gaccttggtta ccatggcccg gggctcggcg ct	32
<210> 18	
<211> 23	
<212> DNA	
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<400> 18	
tcgttcggat ccagaacctc cac	23
<210> 19	
<211> 22	
<212> DNA	
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<223> top strand primer used to construct Ror2-flag	
<400> 19	
gctcacacca cagtggcagt gg	22
<210> 20	
<211> 61	
<212> DNA	
<213> Artificial sequence	
<220>	

<223> bottom strand primer used to construct Ror2-flag

<400> 20
ctggaatcta gatcacttgt catcgtcgtc cttgtagtca gcttccagct ggacttgggc 60
c 61

<210> 21
<211> 41
<212> DNA
<213> Artificial sequence

<220>
<223> top strand primer used to construct Ror2KD-flag

<400> 21
ggctgtggcc atcataacgc tgatagacat agcggagggg c 41

<210> 22
<211> 41
<212> DNA
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<220>
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<400> 22
gccctccgc tatgtctatc agcgttatga tggccacagc c 41

<210> 23
<211> 25
<212> DNA
<213> Artificial sequence

<220>
<223> top strand primer used to construct Ror2deltaC-flag

<400> 23
ccttctgcc a cttcgtgttt cctct 25

<210> 24
<211> 65
<212> DNA
<213> Artificial sequence

<220>
<223> bottom strand primer used to construct Ror2deltaC-flag

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aaggc 65

<210> 25
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<220>
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<400> 25
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<210> 26
 <211> 27
 <212> DNA
 <213> Artificial sequence

 <220>
 <223> reverse primer to identify human Ror1

 <400> 26
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 <210> 27
 <211> 27
 <212> DNA
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 <220>
 <223> probe to identify human Ror1

 <400> 27
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 <210> 28
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 <400> 29
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 <210> 30
 <211> 25
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 <220>
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 <400> 30
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 <210> 31
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<400> 31
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<210> 32
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 <212> DNA
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<220>
 <223> reverse primer to identify mouse Ror1

<400> 32
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<210> 33
 <211> 23
 <212> DNA
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<220>
 <223> probe to identify mouse Ror1

<400> 33
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<210> 34
 <211> 23
 <212> DNA
 <213> Artificial sequence

<220>
 <223> forward primer to identify mouse Ror2

<400> 34
 atccaagacc tggacacaac aga 23

<210> 35
 <211> 20
 <212> DNA
 <213> reverse primer to identify mouse Ror2

<400> 35
 gaaccccagt ggcagtgatg 20

<210> 36
 <211> 25
 <212> DNA
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<220>
 <223> probe to identify mouse Ror2

<400> 36
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<210> 37
 <211> 20
 <212> DNA
 <213> forward primer to identify mouse alkaline phosphatase

<400> 37
 gagaccacg gtggagaaga 20

<210> 38
 <211> 20
 <212> DNA
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 <223> reverse primer to identify mouse alkaline phosphatase
 <400> 38
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<210> 39
 <211> 27
 <212> DNA
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 <223> probe to identify mouse alkaline phosphatase
 <400> 39
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<210> 40
 <211> 19
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> forward primer to identify mouse osteocalcin
 <400> 40
 cggccctgag tctgacaaa 19

<210> 41
 <211> 22
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> reverse prime to identify mouse osteocalcin
 <400> 41
 gccggagtct gttcactacc tt 22

<210> 42
 <211> 24
 <212> DNA
 <213> Artificial sequence
 <220>
 <223> probe to identify mouse osteocalcin
 <400> 42
 ccttcatgtc caagcaggag ggca 24

<210> 43
 <211> 2000
 <212> DNA
 <213> Homo sapiens
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acaaagagct ttgcagacgt ccccggcgtc ctgcgagcgc cagcggccgg gacgaggcgg	1920
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ccgcctcagc gagaggagga	2000

<210> 44
 <211> 2000

<212> DNA
<213> mouse

<220>
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<222> (1848)..(1867)
<223> n is A, C, T or G

<400> 44
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 nnnnnnnngcc ctcgaaggga ccagcctgcg aagcgcgagg aaggaagaag cggacgcgtg 1920
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 gggcaccac ggcccgcagc 2000

<210> 45
 <211> 41
 <212> DNA
 <213> Artificial sequence

<220>
 <223> top strand primer used to construct the 5' portion of Notch2IC
 (1-782)

<400> 45
 catatgaatt catgaccaag catggctctc tctggctgcc t 41

<210> 46
 <211> 23
 <212> DNA
 <213> Artificial sequence

<220>
 <223> bottom strand primer used to construct the 5' portion of Notch2IC
 (1-782)

<400> 46
 cgcttgccag ttgatcagtt ctg 23

<210> 47
 <211> 25
 <212> DNA
 <213> Artificial sequence

<220>
 <223> top strand primer used to construct the 3' portion of Notch2IC
 (783-2307)

<400> 47
 gaatggtggc agaactgatc aactg 25

<210> 48
 <211> 39
 <212> DNA
 <213> Artificial sequence

<220>
 <223> bottom strand primer used to construct the 3' portion or Notch2IC
 (783-2307)

<400> 48
 gatatgcggc cgccgcataa acctgcatgt tgttggtgtg 39